

**CIRCULAR POLYNUCLEOTIDE TEMPLATES AND METHODS FOR
OLIGONUCLEOTIDE SYNTHESIS**

ABSTRACT OF THE DISCLOSURE

A method is provided for forming oligonucleotides by using a circularized polynucleotide template. The circular template utilizes Hoogsten hydrogen bonding to form a triplex with the substrate nucleotides. This overcomes stacking forces and provides for rapid and accurate oligimerization reactions. The circular template may be modified with primers that may be covalently bound.